CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CEMENT/2016-17 Date: 08.08.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. Ramesh Anand,** #174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.
***NAME OF THE WORK**	:	Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.
***REFERENCE**	:	BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.08.2016
PERIOD OF TESTING	:	05.08.2016 to 08.08.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH.C
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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T-2377

Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/SAND-Gradation/2016-17 : 08.08.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,**
#174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

*** Name of Work** : Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.08.2016

Date of Testing : 08.08.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.40	90-100	90-100	90-100	95-100
2.36	78.20	60-95	75-100	85-100	95-100
1.18	56.70	30-70	55-90	75-100	90-100
600 Micron	27.70	15-34	35-59	60-79	80-100
300 Micron	16.70	5-20	8-30	12-40	15-50
150 Micron	6.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/AGG/GR/2016-17 : 08.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,**
#174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

*** Name of Work** : Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 06.08.2016

Date of Testing : 08.08.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.36	95-100	85-100
20	35.93	30-70	0-20
10	14.50	10-35	0-5
4.75	1.64	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CUBE/2016-17 20.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,**
#174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 20.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2016	20.08.2016	8.182	329.6	14.65
2	13.08.2016	20.08.2016	8.236	332.3	14.77
3	13.08.2016	20.08.2016	8.312	339.6	15.09

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CUBE/2016-17 20.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,** #174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 20.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2016	20.08.2016	8.182	335.6	14.92
2	13.08.2016	20.08.2016	8.229	340.2	15.12
3	13.08.2016	20.08.2016	8.398	350.3	15.57

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*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 20.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2016	20.08.2016	8.125	329.9	14.66
2	13.08.2016	20.08.2016	8.225	336.8	14.97
3	13.08.2016	20.08.2016	8.378	342.3	15.21

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*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 20.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.08.2016	20.08.2016	8.275	329.6	14.65
2	13.08.2016	20.08.2016	8.326	335.6	14.92
3	13.08.2016	20.08.2016	8.415	342.6	15.23

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CUBE/2016-17 23.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,**
#174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2016	23.08.2016	8.098	325.5	14.47
2	16.08.2016	23.08.2016	8.190	339.6	15.09
3	16.08.2016	23.08.2016	8.265	340.2	15.12

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*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2016	23.08.2016	8.115	330.1	14.67
2	16.08.2016	23.08.2016	8.229	335.6	14.92
3	16.08.2016	23.08.2016	8.385	342.1	15.20

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CUBE/2016-17 23.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,**
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*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 23.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2016	23.08.2016	8.180	326.3	14.50
2	16.08.2016	23.08.2016	8.250	332.6	14.78
3	16.08.2016	23.08.2016	8.396	342.3	15.21

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CUBE/2016-17 25.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,**
#174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at Kuvempunagar IInd stage in Ward No.11, Kuvempunagar, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2016	25.08.2016	8.225	334.7	14.88
2	18.08.2016	25.08.2016	8.315	341.2	15.16
3	18.08.2016	25.08.2016	8.444	350.6	15.58

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Job No.: CTCE/BBMP/W.No.11/RA/CSR-08/112d/CUBE/2016-17 25.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ramesh Anand,** #174, 3rd Main Road, AECS Layout, 1st Stage, Sanjaynagara, Bangalore.

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*** Reference** : BBMP/EE/BTP/WO/100/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2016	25.08.2016	8.102	330.2	14.68
2	18.08.2016	25.08.2016	8.229	343.6	15.27
3	18.08.2016	25.08.2016	8.310	350.2	15.56

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